

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-069553

(43)Date of publication of application : 10.03.1998

(51)Int.Cl.

G07B 1/00

G06F 19/00

G07B 5/00

(21)Application number : 68-359014

(71)Applicant : SEIKO EPSON CORP

(22)Date of filing : 27.12.1996

(72)Inventor : IKEDA KATSUYUKI

(30)Priority

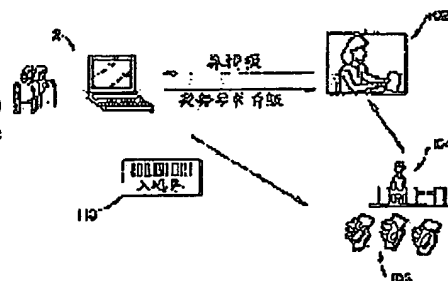
Priority number : 08178559 Priority date : 19.06.1996 Priority country : JP

(54) TICKET ISSUING SYSTEM, TICKET ISSUING DEVICE AND TICKET USING DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a ticket issuing system capable of easily buying a ticket without needing the buyer of the ticket going to a ticket issuing spot.

SOLUTION: Ticket issue request information is transmitted to a ticket issuing center 102 from a user device 2 via a communication line, and the ticket issuing center 102 transmits ticket information corresponding to that ticket issue request information to the user device 2. At this time, the ticket issuing center 102 charges the user the amount of money corresponding to the ticket information transmitted. The user prints the ticket information on a paper with the printer of the user device 2 and takes printed ticket 110 to a ticket using spot 104. At the ticket using spot 104, the information printed on the ticket 110 is read by an information reading device 106 to discriminate whether or not the ticket 110 is available.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[The technical field to which invention belongs] this invention relates to the issue-of-banknotes system, the ticket issue equipment, and ticket use equipment whose user places an order for and purchases a ticket.

[0002]

Background of the Invention] In case common people purchase admission tickets, such as tickets, such as an airline ticket and a tramcar, and a concert, now, the issue of banknotes is reserved by telephone, or it carries out to the location which can issue banknotes, and the ticket is purchased.

[0003] When a ticket is purchased and the issue of banknotes is specifically reserved by telephone to a travel agency, it will go to take a ticket to the travel agency, and a purchase price will be paid.

[0004] Moreover, there is a convenience store etc. as location which can issue an admission ticket etc. Therefore, in case a ticket is purchased at a convenience store, I will have banknotes carried out and issued to a convenience store, and it will purchase.

[0005]

[Problem(s) to be Solved by the Invention] Thus, since the purchaser of a ticket has to go to the location which carried out the reservation in order for an actually effective ticket to come to hand even if it reserves the issue of banknotes by telephone, he spends time and time.

[0006] Moreover, the manpower for issuing banknotes is required in the issue-of-banknotes location like a travel agency or a convenience store.

[0007] That is, the issue-of-banknotes system for a user purchasing a ticket is very complicated.

[0008] It is in this invention being made in view of such a technical problem, and offering the issue-of-banknotes system, the ticket issue equipment, and ticket use equipment with which he can purchase a ticket simply even if the purchaser of a ticket does not go to the issue-of-banknotes location, and the purpose can rationalize manpower in the issue-of-banknotes location.

[0009]

[Means for Solving the Problem] The user equipment whose this invention inputs a user's issue-of-banknotes demand information in order to solve the above-mentioned technical problem, A data-processing means to be connected with the aforementioned user equipment through means of communications, to search the ticket information according to the aforementioned issue-of-banknotes demand information from the aforementioned user equipment, and to output both the user code informations corresponding to this ticket information and aforementioned ticket information that were searched, The ticket issue equipment which has a data transceiver means to receive the aforementioned issue-of-banknotes demand information from the aforementioned user equipment, and to transmit the aforementioned ticket information and the aforementioned user code information from the aforementioned data-processing means to the aforementioned user equipment, An information input means to input the aforementioned ticket information and the aforementioned user code information, It has the ticket use equipment which has a data-processing means to recognize and process the aforementioned ticket information from the aforementioned information input means, and changes. the aforementioned user equipment The record medium which records either [at least] the aforementioned ticket information from the aforementioned ticket issue equipment or the aforementioned user code information is included. the aforementioned ticket use equipment With the aforementioned information input means, the user code information recorded on the aforementioned record medium is read. with the aforementioned data-processing means It is characterized by determining whether the ticket information recorded on the aforementioned record medium is effective based on the collating result of the user code information from the aforementioned information input means, and the user code information from the aforementioned data-processing means of the aforementioned ticket issue equipment.

[0010] thus - the issue-of-banknotes system of this invention - the purchase person of a ticket - the user equipment which the so-called user owns, and the ticket issue equipment with which the facility which publishes a ticket like for example, an issue-of-banknotes center was equipped serve as the configuration connected through means of communications

[0011] Therefore, even if a user does not go to the issue-of-banknotes location, he can transmit an issue-of-banknotes demand information to ticket issue equipment from user equipment, can receive the ticket information on desired, and can purchase a ticket simply by recording this ticket information on a record medium.

[0012] Moreover, in the issue-of-banknotes location, since an issue-of-banknotes demand information is received and processed through means of communications using ticket issue equipment, manpower can be rationalized.

[0013] Moreover, with ticket use equipment, since the user code information recorded on the ticket which the user brought is read with an information input means, it can collate whether the ticket is effective automatically or semi-automatically.

[0014] Moreover, in a claim 1, the aforementioned ticket issue equipment and the aforementioned ticket use equipment are characterized by transmitting and receiving an information through means of communications by invention of a claim 2.

[0015] Thereby, since the distance of the installation position of ticket issue equipment and the installation position of ticket use equipment can be detached physically, ticket issue equipment and ticket use equipment can be installed in a respectively free position. Specifically, ticket issue equipment can be installed in facilities, such as for example, an issue-of-banknotes center, and ticket use equipment can be installed in the position of the window of a desired facility, the entrance opening, etc.

[0016] Moreover, it considers as one computer apparatus and ticket issue equipment and ticket use equipment may be made to install this computer apparatus in the window which uses a ticket, for example, it was unified. Thereby, since issue processing and use processing of a ticket information can be performed by one computer apparatus, a facility of means of communications etc. can be cut down and equipment can be simplified.

[0017] Moreover, if the aforementioned data-processing means of the aforementioned ticket issue equipment distinguishes whether the

forementioned issue-of-banknotes demand information is effective, and invention of a claim 3 has the aforementioned effective issue-of-banknotes demand information and it will distinguish it in either of the claims 1 and 2, it will be characterized by searching the aforementioned ticket information.

[0018] Since a ticket information is searched by this only when the issue-of-banknotes demand information transmitted from user equipment is proper, ticket issue processing can be ensured with ticket issue equipment.

[0019] Moreover, in a claim 3, on the other hand, inside [it is paper and a carried type record medium] comes out of the aforementioned record medium in any at least, and invention of a claim 4 is characterized by a certain thing.

[0020] Thereby, the ticket information transmitted from ticket issue equipment can be recorded simply, and, as for a user, even ticket use equipment can bring this record medium easily.

[0021] in addition, the optical recording medium which used card type record media, such as magnetic-recording mediums, such as a floppy disk and 100MB or more of mass magnetic disk, a memory card, an IC card, a stamp size memory card, and a PC card, the optical MAG, the phase change, etc. as the aforementioned carried type record medium and a palm -- it is possible to use small electronic equipment, such as micro PCs, such as a size, etc.

[0022] Moreover, it is possible to use the paper in which the ticket information or the user code information was printed, for example by printing means, such as a printer, as the aforementioned paper.

[0023] Moreover, with ticket use equipment, you may be made to input the content of the ticket information which the user has memorized.

[0024] Moreover, the aforementioned user equipment is personal computer equipment in a claim 4 in invention of a claim 5, and it carries out containing a data transceiver means receive the aforementioned ticket information and the aforementioned user code information corresponding [this personal computer equipment transmits the aforementioned issue-of-banknotes demand information to the aforementioned data transceiver means of the aforementioned ticket issue equipment through the aforementioned means of communications, and] to the aforementioned issue-of-banknotes demand information from the aforementioned data transceiver means of the aforementioned ticket issue equipment as the characteristic feature.

[0025] Thereby, a user can transmit and receive the information between personal computer equipment and ticket issue equipment easily, and can purchase two or more tickets simply.

[0026] Moreover, in a claim 4, the aforementioned user equipment of invention of a claim 6 is facsimile apparatus, and it carries out that this facsimile apparatus transmits the aforementioned issue-of-banknotes demand information to the aforementioned data transceiver means of the aforementioned ticket issue equipment, and the aforementioned data-processing means of the aforementioned ticket issue equipment transmits the aforementioned ticket information according to the aforementioned issue-of-banknotes demand information to the aforementioned facsimile apparatus as the characteristic feature.

[0027] Thereby, when it does not own personal computer equipment, a user can use facsimile apparatus and can purchase a ticket simply.

[0028] Moreover, invention of a claim 7 is characterized by transmitting the aforementioned issue-of-banknotes demand information by predetermined format in a claim 6.

[0029] Thereby, ticket issue equipment can input the issue-of-banknotes demand information transmitted simply. moreover, the thing for which optical-character-recognition equipment ***** OCR equipments, such as scanner equipment, are used in order to read an issue-of-banknotes demand information with ticket issue equipment at this time -- reading of an issue-of-banknotes demand information -- an automation -- or it can be made semi-automatic

[0030] Invention of a claim 8 is set to either of the claims 5-7. moreover, for the aforementioned data-processing means of the aforementioned ticket use equipment The user code information from the aforementioned data-processing means of the aforementioned ticket issue equipment is transmitted beforehand. the aforementioned data-processing means of the aforementioned ticket use equipment the aforementioned user code information from the aforementioned information input means, and the account of a front -- the user code information transmitted beforehand is collated and it is characterized by distinguishing whether the aforementioned ticket information is effective based on this collating result

[0031] Invention of a claim 9 is set to either of the claims 5-7. moreover, the aforementioned ticket use equipment The aforementioned user code information that it is inputted from the aforementioned information input means is transmitted to the aforementioned ticket issue equipment. the data-processing means of the aforementioned ticket issue equipment The aforementioned user code information transmitted from the aforementioned user code information and the aforementioned ticket use equipment is collated, and this collating result is transmitted to the aforementioned ticket use equipment. the aforementioned data-processing means of the aforementioned ticket use equipment Based on the collating result by which sending was carried out [aforementioned], it is characterized by distinguishing whether the aforementioned ticket information is effective.

[0032] Thus, in the claim 8 and the claim 9, since a collating operation with the user code information outputted from the user code information recorded on the record medium which the user brought, and ticket issue equipment can be performed with either ticket issue equipment or ticket use equipment, a collating operation can be more performed to an authenticity.

[0033] Moreover, as for the aforementioned user code information, invention of a claim 10 is characterized by the thing of a bar code, a digit string, and the character strings expressed with any one at least in either of the claims 8 and 9.

[0034] Thus, a user code information can be easily created by making a user code information into a bar code, a digit string, or a character string. Moreover, when such a user code information is recorded on a record medium, a user code information can be simply read in this record medium.

[0035] Moreover, invention of a claim 11 is characterized by collating the aforementioned user ID information to the aforementioned user code information in either of the claims 8-10 including the user ID information which discriminates the aforementioned user at the time of collating of the aforementioned user code information.

[0036] Thereby, since the user who brought the record medium can distinguish whether you are the true user of the ticket information recorded on the record medium, he can prevent forgery and an unauthorized use of a record medium.

[0037] Moreover, as for the aforementioned user ID information, invention of a claim 12 is characterized by the thing of a user's identifier information and the coding informations included for any or one side at least in a claim 11.

[0038] Thus, since a user's identifier information and coding information are used for a user ID information, a user ID information is simply generable.

[0039] Invention of a claim 13 is set to either of the claims 3-12. moreover, the aforementioned data-processing means of the aforementioned ticket issue equipment When the information received with an information distinction means to distinguish the information received by the aforementioned data transceiver means, and the aforementioned information distinction means was the aforementioned issue-of-banknotes demand information and it is distinguished Whether the aforementioned issue-of-banknotes demand information is effective by issue-of-banknotes demand information distinction means to distinguish, and the aforementioned

issue-of-banknotes demand information distinction means A ticket information retrieval means to search the ticket information according to the aforementioned issue-of-banknotes demand information when the aforementioned issue-of-banknotes demand information was effective and it is distinguished, The user information memorized for a user information storage means to memorize a user information, and the aforementioned user information storage means is used. By user code information creation means to create the user code information corresponding to the aforementioned ticket information searched by the aforementioned ticket information retrieval means, and the aforementioned issue-of-banknotes demand information distinction means When the aforementioned issue-of-banknotes demand information was effective and it is distinguished, it is characterized by including for ** the accounting means which carries out accounting of the amount of money according to the aforementioned ticket information using the user information memorized for the aforementioned user information storage means.

[0040] Invention of a claim 14 is set to either of the claims 3-12. moreover, the aforementioned data-processing means of the aforementioned ticket issue equipment When the information received with an information distinction means to distinguish the information received by the aforementioned data transceiver means, and the aforementioned information distinction means was the aforementioned issue-of-banknotes demand information and it is distinguished Whether the aforementioned issue-of-banknotes demand information is effective by issue-of-banknotes demand information distinction means to distinguish, and the aforementioned issue-of-banknotes demand information distinction means A ticket information retrieval means to search the ticket information according to the aforementioned issue-of-banknotes demand information when the aforementioned issue-of-banknotes demand information was effective and it is distinguished, The user information memorized for a user information storage means to memorize a user information, and the aforementioned user information storage means is used. By user code information creation means to create the user code information corresponding to the aforementioned ticket information searched by the aforementioned ticket information retrieval means, and the aforementioned issue-of-banknotes demand information distinction means The 1st identification information for accounting which receives by the aforementioned information distinction means and was distinguished when the aforementioned issue-of-banknotes demand information was effective and it was distinguished, It is characterized by including for ** an identification information comparison means for accounting to compare the 2nd identification information for accounting memorized beforehand, and the accounting means which will carry out accounting of the amount of money according to the aforementioned ticket information using the identification information for accounting of the above 1st if the comparison result from the aforementioned identification information comparison means for accounting is effective.

[0041] Thus, in the claim 13 and the claim 14, since a user can pay automatically or semi-automatically the price of the ticket published from ticket issue equipment by using a user information or the identification information for accounting, a ticket can be purchased simply.

[0042] Here, a user's identifier, the address, the account number, a credit-card number of a bank of a ticket used for paying, etc. are contained in a user information. [of price]

[0043] Moreover, as for the identification information for accounting, it is desirable that it is the account number and the credit-card number of a bank of a ticket which are used for paying. [of price]

[0044] In addition, from user equipment, it transmits to ticket issue equipment beforehand, the user information memorized for a user information storage means is memorized, and a user may be made to be registered as the so-called member.

[0045] Moreover, it can consider that demand payment of the price of a ticket or ticket issue equipment demands payment of the price of a ticket directly from a user from a bank based on a user information or the identification information for accounting as concrete technique in case ticket issue equipment carries out accounting of the price of a ticket to a user.

[0046] In addition, in a claim 14, in ticket issue equipment, the database which consists of two or more 2nd identification information for accounting is formed, and let 2nd identification information for accounting memorized beforehand be the 2nd identification information for accounting of this database.

[0047] Moreover, a data transceiver means for invention of a claim 15 to be invention of ticket issue equipment, and to transmit and receive the exterior and an information through means of communications, When the information received by information distinction means to distinguish the information received by the aforementioned data transceiver means, and the aforementioned data transceiver means was an issue-of-banknotes demand information and it is distinguished by the aforementioned information distinction means A ticket information retrieval means to search the ticket information according to the aforementioned issue-of-banknotes demand information, and a user code information creation means to create the user code information corresponding to the aforementioned ticket information searched by the aforementioned ticket information retrieval means, It is characterized by transmitting the aforementioned ticket information and a user code information outside by ***** and the aforementioned data transceiver means.

[0048] Thereby, ticket issue equipment can output a ticket information and a user code information only to a positive issue-of-banknotes demand, without performing unnecessary issue-of-banknotes processing, since a ticket information and a user code information are outputted outside, only when an issue-of-banknotes demand information is transmitted.

[0049] Moreover, invention of a claim 16 is characterized by connecting the aforementioned data transceiver means to the user equipment which outputs the aforementioned issue-of-banknotes demand information through the aforementioned means of communications in a claim 15.

[0050] Thereby, the ticket information and user code information corresponding to an issue-of-banknotes demand information can be certainly transmitted to the user equipment which transmitted the issue-of-banknotes demand information.

[0051] Moreover, invention of a claim 17 has a user information storage means to memorize two or more user informations, in either of the claims 15 and 16, and it is characterized by the aforementioned user code information creation means creating the aforementioned user code information using the user information memorized by the aforementioned user information storage means.

[0052] Since ticket issue equipment has memorized two or more user informations beforehand, whenever it transmits an issue-of-banknotes demand information from user equipment to ticket issue equipment, it is not necessary to transmit a user information and a user can demand issue of a ticket in a simple operation.

[0053] Moreover, invention of a claim 18 is set to either of the claims 15-17. When the information received with the aforementioned data transceiver means was an issue-of-banknotes demand information and it is distinguished by the aforementioned information distinction means When it had further an issue-of-banknotes demand information distinction means to distinguish whether the aforementioned issue-of-banknotes demand information is effective, and the aforementioned issue-of-banknotes demand information was effective and it is distinguished by the aforementioned issue-of-banknotes demand information distinction means It is characterized by starting the reference of a ticket information according to the aforementioned issue-of-banknotes demand information by the aforementioned ticket information retrieval means.

[0054] Thereby, since it performs a reference operation of a ticket information, and a creation operation of a user code information only when ticket issue equipment had the effective issue-of-banknotes demand information and it is distinguished, a ticket information and a user code information can be outputted to a demand of the more exact issue of banknotes.

[0055] moreover, in a claim 18, when the aforementioned issue-of-banknotes demand information of invention of a claim 19 was effective and it is distinguished by the aforementioned issue-of-banknotes demand information distinction means The 1st identification information for accounting which receives by the aforementioned data transceiver means and was distinguished by the aforementioned information distinction means, If the comparison result from an identification information comparison means for accounting to compare the 2nd identification information for accounting memorized beforehand, and the aforementioned identification information comparison means for accounting is effective It is characterized by including the accounting means which carries out accounting of the amount of money according to any or one side of the identification information for accounting which specifies the aforementioned user information and the user who does accounting at least.

[0056] Since the identification information for accounting transmitted from user equipment is compared with the identification information for accounting memorized beforehand, accounting of the price of the ticket published to the purchaser of a ticket can be carried out correctly.

[0057] Moreover, invention of a claim 20 collates the 1st user code information created with the aforementioned user code information creation means, and the 2nd user code information which was received by the aforementioned data transceiver means and distinguished by the aforementioned information distinction means in either of the claims 15-19, and is characterized by having a user code information collating means to output this collating result.

[0058] Thereby, since collating processing of a user code information in ticket use equipment is performed in ticket issue equipment, ticket issue equipment can obtain the collating result of an exact user code information, without transmitting a user code information to ticket use equipment.

[0059] Moreover, invention of a claim 21 is invention of ticket use equipment, and is characterized by to have a user code information collating means collate an information input means input a ticket information and the 1st user code information, and the 2nd user code information which remembers to be a user code information on the above 1st which inputted by the aforementioned information input means beforehand, and a ticket information distinction means distinguish the effectiveness of the aforementioned ticket information based on the collating result from the aforementioned user code information collating means.

[0060] Since the inputted user code information is collated with other user code informations, the effectiveness of the ticket information to which this user code information is equivalent can be distinguished correctly.

[0061] In addition, when a user code information is an information recorded on paper as an information input means It is possible to use optical readers, such as OCR equipments, such as scanner equipment, and bar code reader equipment. When a user code information is an information recorded on the case of the information by storage of a user, and the above-mentioned paper (when having written with the number, the character, or the notation) When it is the information by which it is possible to use input devices, such as a keyboard, a mouse, and a control panel, and the user code information was recorded on the carried type record medium If information readers, such as the medium drive equipment for taking out the information memorized by the medium, or it is small electronic equipment, it is possible to use an interconnection cable, light, or a radio device.

[0062] Moreover, it is characterized by for the aforementioned data transceiver means receiving and memorizing the user code information on the above 2nd including a data transceiver means by which invention of a claim 22 transmits and receives data through means of communications in a claim 21.

[0063] Since the 2nd user code information used as the criteria of collating is memorized by ticket use equipment by this, ticket use equipment transmits the 1st user code information inputted outside, does not have the need of obtaining the collating result of a user code information, and can obtain a collating result simply. Therefore, a ticket information can be used easily.

[0064] Moreover, a data transceiver means for invention of a claim 23 to be invention of ticket use equipment, and to transmit and receive data through means of communications, After transmitting the user code information on the above 1st inputted by information input means to input a ticket information and the 1st user code information, and the aforementioned information input means to the exterior by the aforementioned data transceiver means It is characterized by having a ticket information distinction means to distinguish the effectiveness of the aforementioned ticket information by receiving the collating result with the 2nd user code information memorized beforehand from the exterior through the aforementioned data transceiver means to the user code information and the exterior of the above 1st transmitted to the exterior.

[0065] Thereby, since ticket use equipment can obtain a collating result by transmitting the 1st inputted user code information outside, it does not need to perform a collating operation and can constitute it as simple equipment.

[0066] Moreover, as for the aforementioned ticket information and the user code information on the above 1st, invention of a claim 24 is characterized by the thing of paper and the carried type record media currently recorded on any or one side at least in either of the claims 21-23.

[0067] Thereby, a ticket information and a user code information can be read with common scanner equipment or drive equipment. Moreover, since a ticket information and a user code information are recorded on paper or a carried type record medium, a ticket information etc. can be carried easily.

[0068] Moreover, as for the user code information on the above 1st, invention of a claim 25 is characterized by the thing of a bar code, a digit string, and the character strings expressed with any one at least in either of the claims 21-24.

[0069] Thus, a user code information can be easily created by making a user code information into a bar code, a digit string, or a character string. Moreover, when such a user code information is recorded on a record medium, a user code information can be simply read in this record medium.

[0070] Moreover, in either of the claims 21-25, it is characterized by for the user code information on the above 1st including the 1st user ID information, for the user code information on the above 2nd including the 2nd user ID information, respectively, and invention of a claim 26 performing collating with the user ID information on the above 1st, and the user ID information on the above 2nd at the time of collating with the user code information on the above 1st, and the user code information on the above 2nd.

[0071] To a user ID information, since a collating operation of an individual information is also performed to this user including a user's identifier information etc., the collating result of a more exact user code information can be obtained.

[0072] Moreover, as for the user ID information on the above 1st, invention of a claim 27 is characterized by the thing of a user's identifier information and the coding informations included for any or one side at least in a claim 26.

[0073] Thus, since a user's identifier information and coding information are used for a user ID information, a user ID information is simply generable.

[0074]

[Embodiments of the Invention] Next, the gestalt of suitable operation of this invention is explained.

[0075] It is drawing showing the notional configuration of the issue-of-banknotes system concerning this invention in drawing 1.

[0076] The issue-of-banknotes center 102 equipped with the user equipment 2 using a personal computer (henceforth PC), the terminal for Internet connectivities, a TV with Internet functions, NetPC, etc. and the ticket issue equipment which publishes a ticket is

connected by the communication line.

[0077] Moreover, the ticket issue equipment of the issue-of-banknotes center 102 is connected with the ticket use equipment which reads the information on a ticket that the use location 104 of the ticket was published by the communication line.

[0078] Although the communication line used by the aforementioned issue-of-banknotes system is a cable and it is common to use the telephone line, it is also possible to use the cable of ISDN circuit or CATV (Cable Television) or a fiber optic cable. Moreover, it can consider that a communication line uses the communication system which may be a radio and used the both directions of PHS (personal handy phone), a cellular phone, or a satellite.

[0079] The so-called user who is the purchaser of a ticket uses the user equipment 2, and transmits the issue-of-banknotes demand information on a desired ticket to the ticket issue equipment of the issue-of-banknotes center 102. This searches the data according to a user's issue-of-banknotes demand information with the ticket issue equipment of the issue-of-banknotes center 102. And if ticket issue equipment searches desired data, it will make the data a ticket information and will transmit it to user equipment. At this time, the user code information corresponding to the ticket is also transmitted with a ticket information. Moreover, from the issue-of-banknotes center 102, accounting of the amount of money according to the ticket information is carried out to a user so that it may specifically mention later.

[0080] Thus, as a ticket published, it is possible for them to be various tickets, such as admission tickets, such as stay tickets, such as tickets and airline tickets, such as a tramcar, a hotel, and a hotel, and a concert, a betting ticket, and public lottery.

[0081] The transmitted ticket information is expressed as the user equipment 2. A user prints this ticket information on paper with the printer equipment with which the user equipment 2 is equipped, and generates a ticket 110. A user brings this ticket 110 to the ticket use location 104, in order to actually use this printed ticket 110. Specifically, this ticket use location 104 serves as ticket use windows, such as a station and a facility, the entrance opening, etc.

[0082] In the ticket use location 104, it has two or more information readers 106 connected to ticket use equipment. For example, if either [at least] the ticket information or the user code information is printed as a bar-code information, it is possible to use bar code reader equipment as an information reader 106. In the ticket use location 104, either [at least] the ticket information printed by paper or a user code information is read with the information reader 106, and it distinguishes whether the ticket 110 is effective. If the ticket 110 which the user brought is effective and it will be distinguished by this, a user can use the ticket 110 as a true ticket.

[0083] Of course, in the ticket use location 104, checking the fraction which has printed that the user has memorized the ticket information or the user code information **** or them, input devices, such as a keyboard, a mouse, and a control panel, are used, and it may be made to input a ticket information or a user code information into the ticket use equipment 3. Furthermore, you may be the gestalt used combining use of this input device, the above-mentioned scanner equipment, bar code reader equipment, etc. Moreover, while it is possible to use an interconnection cable, light, or a radio device if information readers, such as the medium drive equipment for taking out the information memorized by the medium, or it is small electronic equipment when a ticket information or a user code information is an information recorded on the carried type record medium, you may be the gestalt used combining some above-mentioned readers.

[0084] In addition, it is also possible to print the ticket information which uses facsimile apparatus instead of PC and is transmitted from ticket issue equipment as user equipment 2 so that it may mention later in detail.

[0085] Moreover, it prints on paper, and also the ticket information transmitted to the user equipment 2 from the ticket issue equipment of the issue-of-banknotes center 102 can also be recorded on the portable carried type record medium of a floppy disk, a memory card, an IC card, etc. In addition, the user code information mentioned later in detail may be printed recorded with a ticket information, or only a user code information may be printed or recorded.

[0086] At this time, it has the computer apparatus which can read the information on the carried type record medium which a user brings as ticket use equipment of the use location 104, and the ticket information and user code information which were recorded on this carried type record medium are read to it.

[0087] Next, the rough block diagram of the gestalt of operation of the issue-of-banknotes system concerning this invention is shown in drawing 2.

[0088] The issue-of-banknotes system of drawing 2 is equipped with the ticket issue equipment 1, the user equipment 2, and the ticket use equipment 3, and changes.

[0089] The user equipment 2 is equipped with the user interface section 24 which inputs a user's issue-of-banknotes demand information, the data-processing section 21 which processes the information inputted from this user interface section 24, the display 23 which displays the data processed in the data-processing section 21, the modem 22 which transmit and receive an information and data between the ticket issue equipments 1, and the printer equipment 25 which prints a ticket information, a user code information, etc. on paper in drawing 2.

[0090] The aforementioned user interface section 24 is equipped with the input sections, such as a keyboard, a mouse, and a control panel. A user operates this user interface section 24, and inputs the issue-of-banknotes demand information for purchasing a desired ticket. After sending the issue-of-banknotes demand information that it was inputted from the user interface section 24 to the data-processing section 21 and processing it, it is sent to the ticket issue equipment 1 through a communication line from a modem 22.

[0091] It connects with the modem 22 of the user equipment 2 through a communication line 6, and this ticket issue equipment 1 is equipped with the modem 12 which transmits and receives an information between the aforementioned modems 22, the data-processing section 11 which processes an information etc., and the modem 13 which transmit and receive the information from the data-processing section 11 etc. between the modems 32 of the ticket use equipment 3 through the high-speed line network 4.

[0092] With this ticket issue equipment 1, a modem 12 receives the issue-of-banknotes demand information transmitted from the modem 22 of user equipment. This issue-of-banknotes demand information is sent to the data-processing section 11.

[0093] In the data-processing section 11, if it distinguishes whether the sent issue-of-banknotes demand information is effective, and effective and it will distinguish, the ticket information according to the aforementioned issue-of-banknotes demand information will be searched, and the searched ticket information and the user code information corresponding to this ticket information will be outputted. This ticket information and a user code information are transmitted to the user equipment 2 connected through a communication line 6 from a modem 12.

[0094] Here, the rough configuration of the data-processing section 11 is shown in drawing 3.

[0095] When the information distinction section 200 which distinguishes the information received with the modem 12 were issue-of-banknotes demand informations and it is distinguished by the information distinction section 200, this data-processing section 11 The ticket information retrieval section 204 which searches the ticket information according to the aforementioned issue-of-banknotes demand information, It has the user code information creation section 206 which creates the user code information corresponding to the aforementioned ticket information searched by the ticket information retrieval section 204. The user code information outputted from the ticket information and the aforementioned user code information

creation section 206 which are outputted from the aforementioned ticket information retrieval section 204 by the modem 12 is transmitted to the user equipment 2.

[0096] The ticket information storage section 205 which memorizes two or more kinds of ticket informations for publishing is connected to the ticket information retrieval section 204, and the user information storage section 207 which memorizes two or more users' user information is connected to it at the user code information creation section 206. A user information is an information containing a user's identifier, the address, the account number, a credit-card number of the bank used for paying of a ticket, etc. [of price]

[0097] Moreover, it has further the issue-of-banknotes demand information distinction section 201 which distinguishes whether the data-processing section 11 has the aforementioned effective issue-of-banknotes demand information when the information received with the modem 12 was an issue-of-banknotes demand information and it is distinguished by the information distinction section 200, and when effective and an issue-of-banknotes demand information is distinguished by the issue-of-banknotes demand information distinction section 201, the reference of a ticket information according to the issue-of-banknotes demand information starts by the ticket information-retrieval section 204.

[0098] furthermore, when the issue-of-banknotes demand information was effective and it is distinguished by the issue-of-banknotes demand information distinction section 201 The 1st identification information for accounting which receives with a modem 12 and was distinguished by the information distinction section 200. If the comparison result from the identification information comparator for accounting 202 which compares the 2nd identification information for accounting memorized beforehand, and the identification information comparator for accounting 202 is effective It has the accounting section 208 which carries out accounting of the amount of money according to any or one side of the identification information for accounting which specifies the aforementioned user information and the user who does accounting at least.

[0099] The information received by modems 12 and 13 is inputted into the information distinction section 200, and it distinguishes what information this input is. When the input was an issue-of-banknotes demand information and it is distinguished, this issue-of-banknotes demand information is sent to the issue-of-banknotes demand information distinction section 201, the ticket information retrieval section 204, and the accounting section 208. Moreover, when the input was a user ID information and it is distinguished, this user ID information is sent to the user code information creation section 206. Moreover, when the input was the identification information for accounting and it is distinguished, this identification information for accounting is sent to the identification information comparator for accounting 202, and the accounting section 208.

[0100] The issue-of-banknotes demand information distinction section 201 distinguishes whether it is possible to search the ticket information specifically demanded [whether the sent issue-of-banknotes demand information is effective and] using an issue-of-banknotes demand information. And the issue-of-banknotes demand information distinction section 201 sends a distinction result to the identification information comparator for accounting 202, the ticket information retrieval section 204, and the user code information creation section 206.

[0101] The identification information storage section for accounting 203 which memorizes two or more users' identification information for accounting is connected to the identification information comparator for accounting 202. Two or more users' identification information for accounting is memorized by this identification information storage section for accounting 203. For example, identification information for accounting inputted into the identification information comparator for accounting 202 is made into the 1st identification information for accounting. When identification information for accounting memorized among the identification information storage section for accounting 203 is made into the 2nd identification information for accounting, the identification information comparator for accounting 202 As compared with the time of the distinction result which shows that an issue-of-banknotes demand information is effective being inputted, this comparison result is sent for the 1st identification information for accounting, and the 2nd identification information for accounting to the ticket information retrieval section 204 and the accounting section 208.

[0102] When it is shown that the ticket information retrieval section 204 can issue the distinction result sent from the issue-of-banknotes demand information distinction section 201, in addition it searches and outputs the ticket information which suits from the ticket information memorized by the ticket information storage section 205 based on the content of an issue-of-banknotes demand information, the ticket information retrieval section 204 may be made to start reference of a ticket information using the comparison result from the identification information comparator for accounting 202. In this case, the ticket information retrieval section 204 searches the ticket information which suits from the ticket information memorized by the ticket information storage section 205 based on the content of an issue-of-banknotes demand information, when it is shown that accounting is possible for the comparison result sent from the identification information comparator for accounting 202.

[0103] Moreover, the user ID information distinguished in the information distinction section 200 is sent to the user code information creation section 206. When it is shown that the distinction result sent from the issue-of-banknotes demand information distinction section 201 can issue banknotes, the user code information creation section 206 reads the user information corresponding to the user ID information transmitted from the user information memorized by the user information storage section 207, and creates a user code information using this user information.

[0104] The accounting section 208 carries out accounting of the price of a ticket based on an issue-of-banknotes demand information using the identification information for accounting, when it is shown that accounting is possible for the comparison result sent from the identification information comparator for accounting 202. Specifically, payment of the price of a ticket is demanded from the bank based on a bank account number, a credit-card number, etc. which are contained in the identification information for accounting etc. so that it may mention later. Moreover, when performing accounting, you may perform accounting instead of the identification information for accounting using the user information memorized by the user information storage section 207. Specifically, from two or more user informations memorized by the user information storage section 207, the user information corresponding to the user ID information included in an issue-of-banknotes demand information is read, and accounting is performed based on the bank account number and credit-card number which are contained in this user information.

[0105] The user equipment 2 receives the ticket information and user code information which were transmitted from the modem 12 of the ticket issue equipment 1 with a modem 22, and sends this ticket information and a user code information to the data-processing section 21. The data-processing section 21 is controlled to display the content of a ticket information by the display 23. This display 23 consists of the so-called display unit.

[0106] A user inputs the information which directs to operate a user interface 24 and to print the displayed ticket information on paper with the printer equipment 25, when the content of the ticket information displayed on the display 23 was the content of a desired ticket demanded using the issue-of-banknotes demand information and it checks. This inputted information is sent to the data-processing section 21. In the data-processing section 21, a ticket information and a user code information are transmitted to the printer equipment 25 based on the sent input. Thereby, the printer equipment 25 prints either [at least] a ticket information or a user code

information on paper.

[0107] In addition, you may be made to record it on the carried type record medium of the aforementioned data-logging section 26 instead of the user equipment 2 being equipped with the data-logging section 26 which records data on carried type record media, such as a floppy disk, a memory card, and an IC card, and printing either [at least] a ticket information or a user code information on paper with the printer equipment 25.

[0108] Moreover, when the content of the ticket information as which the user was displayed on the display 23 at this time was the content of a desired ticket demanded using the issue-of-banknotes demand information and it checks, with above-mentioned operation, the user interface section 24 is operated and it transmits through a modem 22 that the ticket information is the content of a desired ticket to the ticket issue equipment 1. And the ticket issue equipment 1 receives the connection from the user that a ticket information is the content of a desired ticket, with a modem 12. In response to it, the data-processing section 11 of the ticket issue equipment 1 transmits the user code information transmitted to the user equipment 2 from a modem 13 also to the ticket use equipment 3 through a communication line 4, for example, a high-speed line network.

[0109] The modem 32 which the ticket use equipment 3 is connected with the ticket issue equipment 1 through the high-speed line network 4, and transmits and receives data, The scanner equipment 34 which is an information input means to read and input either [at least] the ticket information printed by paper or a user code information with the printer equipment 25 of the user equipment 1 as the data-processing section 31 which processes the information sent from a modem 32, It has the display 33 which displays the information processed in the data-processing section 31.

[0110] The scanner equipment 34 of the ticket use equipment 3 reads either [at least] the information on the ticket which the user brought, i.e., the ticket information printed by paper, and a user code information. This ticket information and user code information that were read are sent to the data-processing section 31.

[0111] In addition, a ticket information and a user code information may be informations memorized by carried type storages other than paper.

[0112] in addition, the optical recording medium which used card type record media, such as magnetic-recording mediums, such as a floppy disk and 100MB or more of mass magnetic disk, a memory card, an IC card, a stamp size memory card, and a PC card, the optical MAG, the phase change, etc. as the aforementioned carried type record medium and a palm -- it is possible to use small electronic equipment, such as micro PCs, such as a size, etc. Therefore, the ticket use equipment 3 may be equipped with drive equipments, such as for example, floppy-disk-drive equipment, as an information input means to read the information on a carried type storage. Thereby, when a user brings a carried type record medium, the aforementioned carried type storage is inserted in drive equipment, the ticket information and user code information which are memorized by the carried type record medium are read, and this ticket information and a user code information are sent to the data-processing section 31.

[0113] Namely, when a user code information is an information recorded on paper as an information input means It is possible to use optical readers, such as OCR equipments, such as scanner equipment, and bar code reader equipment. When a user code information is an information recorded on the case of the information by storage of a user, and the above-mentioned paper (when having written with the number, the character, or the notation) When it is the information by which it is possible to use input devices, such as a keyboard, a mouse, and a control panel, and the user code information was recorded on the carried type record medium If information readers, such as the medium drive equipment for taking out the information memorized by the medium, or it is small electronic equipment, it is possible to use an interconnection cable, light, or a radio device.

[0114] Here, the rough configuration of the ticket use equipment 3 is shown in drawing 4 .

[0115] The data-processing section 31 has the 2nd user code information collating section 301 which collates the user code information beforehand remembered to be the 1st user code information inputted with the scanner equipment 34, and the ticket information distinction section 302 which distinguishes the effectiveness of the aforementioned ticket information based on the collating result from the aforementioned user code information collating section 301.

[0116] That is, the user code information read from the scanner equipment 34 or drive equipment is sent to the user code information collating section 301 as 1st user code information.

[0117] On the other hand, it is received by the modem 32, and as 2nd user code information, the user code information transmitted through the high-speed line network 4 from the ticket issue equipment 1 is sent to the user code information collating section 301, and is memorized.

[0118] The user code information collating section 301 collates the 1st user code information read from the scanner equipment 34 etc., and the 2nd user code information which is transmitted from the aforementioned ticket issue equipment 1, and is memorized beforehand. This collating result is sent to the ticket information distinction section 302.

[0119] The ticket information read from the scanner equipment 34 etc. is sent to the ticket information distinction section 302. The ticket information distinction section 302 distinguishes whether the sent ticket information is effective based on a collating result. Thereby, if it is as a result of [which distinguishes and is not in agreement] collating when the ticket information is effective, if it is as a result of [whose two user code informations correspond] collating, a ticket information will be distinguished if invalid. And the ticket information distinction section 302 sends informations, such as a distinction result and a ticket information, to a display 33.

[0120] A display 33 consists of the so-called display unit etc. This display 33 displays the sent information.

[0121] In addition, although the collating operation of a user code information is performed in the data-processing section 31 of the ticket use equipment 3 as mentioned above After the ticket information distinction section 302 transmits the user code information on the above 1st inputted by the information input means to the exterior by the aforementioned data transceiver means The collating result with the 2nd user code information beforehand memorized to the user code information and the exterior of the above 1st transmitted to the exterior by receiving from the exterior through the aforementioned data transceiver means It is also possible to distinguish the effectiveness of the aforementioned ticket information and to perform a collating operation of a user code information in the data-processing section 11 of the ticket issue equipment 1.

[0122] Specifically, the ticket use equipment 3 transmits the user code information read from the scanner equipment 34 etc. from a modem 32 to the ticket issue equipment 1 by processing of the data-processing section 31.

[0123] The user code information transmitted to the ticket issue equipment 1 is distinguished from the modem 13 of the ticket issue equipment 1 in the information distinction section 200 of the data-processing section 11 shown in drawing 3 , and is sent to the user code information collating section 210. On the other hand, the user code information sent from the user code information creation section 206 is sent to the user code information collating section 210. If the user code information which makes the user code information from the user code information creation section 206 the 2nd user code information, and was transmitted to the ticket issue equipment 1 from the ticket use equipment 3 is made into the 1st user code information, the user code information collating section 210 will collate the 1st user code information and the 2nd user code information. This collating result is transmitted to the ticket use equipment 3 through the high-speed line network 4 from a modem 13.

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

CLAIMS

[Claim(s)]

[Claim 1] It connects with the user equipment which inputs a user's issue-of-banknotes demand information, and the aforementioned user equipment through means of communications. A data-processing means to search the ticket information according to the aforementioned issue-of-banknotes demand information from the aforementioned user equipment, and to output both the user code information corresponding to this ticket information and aforementioned ticket information that were searched. The ticket issue equipment which has a data transceiver means to receive the aforementioned issue-of-banknotes demand information from the aforementioned user equipment, and to transmit the aforementioned ticket information and the aforementioned user code information from the aforementioned data-processing means to the aforementioned user equipment. An information input means to input the aforementioned ticket information and the aforementioned user code information. It has the ticket use equipment which has a data-processing means to recognize and process the aforementioned ticket information from the aforementioned information input means, and changes the aforementioned user equipment. The record medium which records either [at least] the aforementioned ticket information from the aforementioned ticket issue equipment or the aforementioned user code information is included. the aforementioned ticket use equipment. With the aforementioned information input means, the user code information recorded on the aforementioned record medium is read. with the aforementioned data-processing means. The issue-of-banknotes system characterized by determining whether the ticket information recorded on the aforementioned record medium is effective based on the collating result of the user code information from the aforementioned information input means, and the user code information from the aforementioned data-processing means of the aforementioned ticket issue equipment.

[Claim 2] It is the issue-of-banknotes system characterized by the aforementioned ticket issue equipment and the aforementioned ticket use equipment transmitting and receiving an information through means of communications in a claim 1.

[Claim 3] It is the issue-of-banknotes system characterized by searching the aforementioned ticket information if it distinguishes whether the aforementioned data-processing means of the aforementioned ticket issue equipment has the aforementioned effective issue-of-banknotes demand information in either of the claims 1 and 2, and the aforementioned issue-of-banknotes demand information is effective and it will distinguish.

[Claim 4] Setting to a claim 3, the aforementioned record medium is an issue-of-banknotes system of paper and the carried type record media which comes out on the other hand in any, and is characterized by a certain thing at least.

[Claim 5] It is the issue-of-banknotes system the aforementioned user equipment is personal computer equipment, and carry out that this personal computer equipment contains a data transceiver means receive the aforementioned ticket information and the aforementioned user code information corresponding [transmit the aforementioned issue-of-banknotes demand information to the aforementioned data transceiver means of the aforementioned ticket issue equipment through the aforementioned means of communications, and] to the aforementioned issue-of-banknotes demand information from the aforementioned data transceiver means of the aforementioned ticket issue equipment as the characteristic feature in a claim 4.

[Claim 6] It is the issue-of-banknotes system which the aforementioned user equipment is facsimile apparatus and is carried out [that this facsimile apparatus transmits the aforementioned issue-of-banknotes demand information to the aforementioned data transceiver means of the aforementioned ticket issue equipment, and the aforementioned data-processing means of the aforementioned ticket issue equipment transmits the aforementioned ticket information according to the aforementioned issue-of-banknotes demand information to the aforementioned facsimile apparatus, and] as the characteristic feature in a claim 4.

[Claim 7] It is the issue-of-banknotes system characterized by transmitting the aforementioned issue-of-banknotes demand information by predetermined format in a claim 6.

[Claim 8] In either of the claims 5-7, a user code information transmits beforehand from the aforementioned data-processing means of the aforementioned ticket issue equipment in the aforementioned data-processing means of the aforementioned ticket use equipment -- having -- **** -- the aforementioned data-processing means of the aforementioned ticket use equipment -- the aforementioned user code information from the aforementioned information input means, and the account of a front -- the issue-of-banknotes system which characterizes by to collate the user code information transmitted beforehand and to distinguish that the aforementioned ticket information is effective based on this collating result

[Claim 9] In either of the claims 5-7 the aforementioned ticket use equipment. The aforementioned user code information that it is inputted from the aforementioned information input means is transmitted to the aforementioned ticket issue equipment. the data-processing means of the aforementioned ticket issue equipment. The collating result which collated the aforementioned user code information transmitted from the aforementioned user code information and the aforementioned ticket use equipment is transmitted to the aforementioned ticket use equipment. the aforementioned data-processing means of the aforementioned ticket use equipment. The issue-of-banknotes system characterized by distinguishing whether the aforementioned ticket information is effective based on the collating result by which sending was carried out [aforementioned].

[Claim 10] It is the issue-of-banknotes system by which the aforementioned user code information is characterized by the thing of a bar code, a digit string, and the character strings expressed with any one at least in either of the claims 8 and 9.

[Claim 11] The issue-of-banknotes system characterized by collating the aforementioned user ID information in either of the claims 8-10 including the user ID information which discriminates the aforementioned user to the aforementioned user code information at the time of collating of the aforementioned user code information.

[Claim 12] It is the issue-of-banknotes system by which the aforementioned user ID information is characterized by the thing of a user's identifier information and the coding informations included for any or one side at least in a claim 11.

[Claim 13] In either of the claims 3-12 the aforementioned data-processing means of the aforementioned ticket issue equipment. When the information received with an information distinction means to distinguish the information received by the aforementioned data-

transceiver means, and the aforementioned information distinction means was the aforementioned issue-of-banknotes demand information and it is distinguished Whether the aforementioned issue-of-banknotes demand information is effective by issue-of-banknotes demand information distinction means to distinguish, and the aforementioned issue-of-banknotes demand information distinction means A ticket information retrieval means to search the ticket information according to the aforementioned issue-of-banknotes demand information when the aforementioned issue-of-banknotes demand information was effective and it is distinguished, The user information memorized for a user information storage means to memorize a user information, and the aforementioned user information storage means is used. By user code information creation means to create the user code information corresponding to the aforementioned ticket information searched by the aforementioned ticket information retrieval means, and the aforementioned issue-of-banknotes demand information distinction means The aforementioned issue-of-banknotes demand information is an issue-of-banknotes system characterized by including the accounting means which carries out accounting of the amount of money according to the aforementioned ticket information using the user information memorized for the aforementioned user information storage means when effective and it is distinguished.

[Claim 14] In either of the claims 3-12 the aforementioned data-processing means of the aforementioned ticket issue equipment When the information received with an information distinction means to distinguish the information received by the aforementioned data transceiver means, and the aforementioned information distinction means was the aforementioned issue-of-banknotes demand information and it is distinguished Whether the aforementioned issue-of-banknotes demand information is effective by issue-of-banknotes demand information distinction means to distinguish, and the aforementioned issue-of-banknotes demand information distinction means A ticket information retrieval means to search the ticket information according to the aforementioned issue-of-banknotes demand information when the aforementioned issue-of-banknotes demand information was effective and it is distinguished, The user information memorized for a user information storage means to memorize a user information, and the aforementioned user information storage means is used. By user code information creation means to create the user code information corresponding to the aforementioned ticket information searched by the aforementioned ticket information retrieval means, and the aforementioned issue-of-banknotes demand information distinction means The 1st identification information for accounting which receives by the aforementioned information distinction means and was distinguished when the aforementioned issue-of-banknotes demand information was effective and it was distinguished, If the comparison result from an identification information comparison means for accounting to compare the 2nd identification information for accounting memorized beforehand, and the aforementioned identification information comparison means for accounting is effective The issue-of-banknotes system characterized by including the accounting means which carries out accounting of the amount of money according to the aforementioned ticket information using the identification information for accounting of the above 1st.

[Claim 15] A data transceiver means to transmit and receive the exterior and an information through means of communications, and an information distinction means to distinguish the information received by the aforementioned data transceiver means, When the information received by the aforementioned data transceiver means was an issue-of-banknotes demand information and it is distinguished by the aforementioned information distinction means A ticket information retrieval means to search the ticket information according to the aforementioned issue-of-banknotes demand information, and a user code information creation means to create the user code information corresponding to the aforementioned ticket information searched by the aforementioned ticket information retrieval means, ***** ticket issue equipment characterized by transmitting the aforementioned ticket information and a user code information outside by the aforementioned data transceiver means.

[Claim 16] It is the ticket issue equipment characterized by connecting with the user equipment with which the aforementioned data transceiver means outputs the aforementioned issue-of-banknotes demand information through the aforementioned means of communications in a claim 15.

[Claim 17] It is the ticket issue equipment which has a user information storage means to memorize two or more user informations, in either of the claims 15 and 16, and is characterized by the aforementioned user code information creation means creating the aforementioned user code information using the user information memorized by the aforementioned user information storage means.

[Claim 18] When the information received with the aforementioned data transceiver means was an issue-of-banknotes demand information and it is distinguished by the aforementioned information distinction means in either of the claims 15-17 When it had further an issue-of-banknotes demand information distinction means to distinguish whether the aforementioned issue-of-banknotes demand information is effective, and the aforementioned issue-of-banknotes demand information was effective and it is distinguished by the aforementioned issue-of-banknotes demand information distinction means Ticket issue equipment characterized by starting the reference of a ticket information according to the aforementioned issue-of-banknotes demand information by the aforementioned ticket information retrieval means.

[Claim 19] In a claim 18, when the aforementioned issue-of-banknotes demand information was effective and it is distinguished by the aforementioned issue-of-banknotes demand information distinction means The 1st identification information for accounting which receives by the aforementioned data transceiver means and was distinguished by the aforementioned information distinction means, If the comparison result from an identification information comparison means for accounting to compare the 2nd identification information for accounting memorized beforehand, and the aforementioned identification information comparison means for accounting is effective Ticket issue equipment characterized by including the accounting means which carries out accounting of the amount of money according to any or one side of the identification information for accounting which specifies the aforementioned user information and the user who does accounting at least.

[Claim 20] Ticket issue equipment characterized by having a user code information collating means to collate the 1st user code information created with the aforementioned user code information creation means, and the 2nd user code information which was received by the aforementioned data transceiver means and distinguished by the aforementioned information distinction means in either of the claims 15-19, and to output this collating result.

[Claim 21] The ticket use equipment characterized by to have a user code information collating means collate an information input means input a ticket information and the 1st user code information, and the 2nd user code information beforehand remembered to be a user code information on the above 1st inputted by the aforementioned information input means, and a ticket information distinction means distinguish the effectiveness of the aforementioned ticket information based on the collating result from the aforementioned user code information collating means.

[Claim 22] It is the ticket use equipment characterized by what the aforementioned data transceiver means receives the user code information on the above 2nd including a data transceiver means to transmit and receive data through means of communications in a claim 21, and is memorized.

[Claim 23] A data transceiver means to transmit and receive data through means of communications, and an information input means to input a ticket information and the 1st user code information, After transmitting the user code information on the above 1st inputted by the aforementioned information input means to the exterior by the aforementioned data transceiver means The collating result with

the 2nd user code information beforehand memorized to the user code information and the exterior of the above 1st transmitted to the exterior by receiving from the exterior through the aforementioned data transceiver means Ticket use equipment characterized by having a ticket information distinction means to distinguish the effectiveness of the aforementioned ticket information.

[Claim 24] It is the ticket use equipment with which either [at least] the aforementioned ticket information or the user code information on the above 1st is characterized by the thing of paper and the carried type record media currently recorded on any or one side at least in either of the claims 21-23.

[Claim 25] It is the ticket use equipment with which the user code information on the above 1st is characterized by the thing of a bar code, a digit string, and the character strings expressed with any one at least in either of the claims 21-24.

[Claim 26] It is the ticket use equipment which the user code information on the above 1st includes the 1st user ID information, and the user code information on the above 2nd includes the 2nd user ID information, respectively, and is characterized by performing collating with the user ID information on the above 1st, and the user ID information on the above 2nd in either of the claims 21-25 at the time of collating with the user code information on the above 1st, and the user code information on the above 2nd.

[Claim 27] It is the ticket use equipment with which the user ID information on the above 1st is characterized by the thing of a user's identifier information and the coding informations included for any or one side at least in a claim 26.

[Translation done.]

[Brief Description of the Drawings]

[Drawing 1] It is drawing showing an example of the notional configuration of the issue-of-banknotes system concerning this invention.

[Drawing 2] It is the rough block diagram of an example of the gestalt of operation of the issue-of-banknotes system concerning this invention.

[Drawing 3] It is the rough block diagram of an example of the data-processing section of ticket issue equipment.

[Drawing 4] It is the rough block diagram of an example of ticket use equipment.

[Drawing 5] It is the flow chart of the issue-of-banknotes procedure at the time of using personal computer equipment for user equipment.

[Drawing 6] It is drawing showing each screen displayed on the display of the user equipment at the time of the issue of banknotes.

[Drawing 7] It is drawing showing an example of the ticket issued by the issue-of-banknotes procedure of drawing 5.

[Drawing 8] It is the flow chart of the issue-of-banknotes procedure at the time of using facsimile apparatus for user equipment.

[Drawing 9] It is drawing showing an example of the predetermined format used by facsimile apparatus.

[Description of Notations]

1 Ticket Issue Equipment

2 User Equipment

3 Ticket Use Equipment

4 High-speed Line Network

6 Communication Line

11, 21, 31 Data-processing section

23, 33 Display

12, 13, 22, 32 Modem

24 User Interface Section

25 Printer Equipment

34 Scanner Equipment

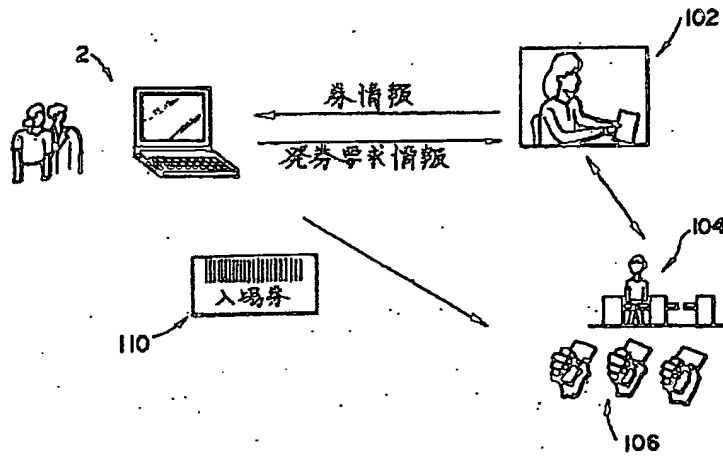
NOTICES

Japan Patent Office is not responsible for any damages caused by the use of this translation.

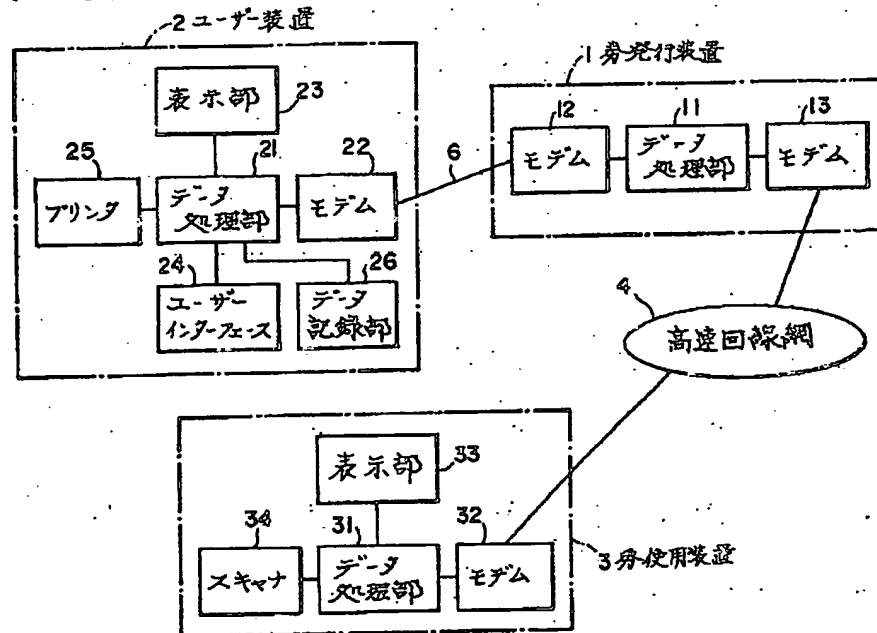
1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DRAWINGS

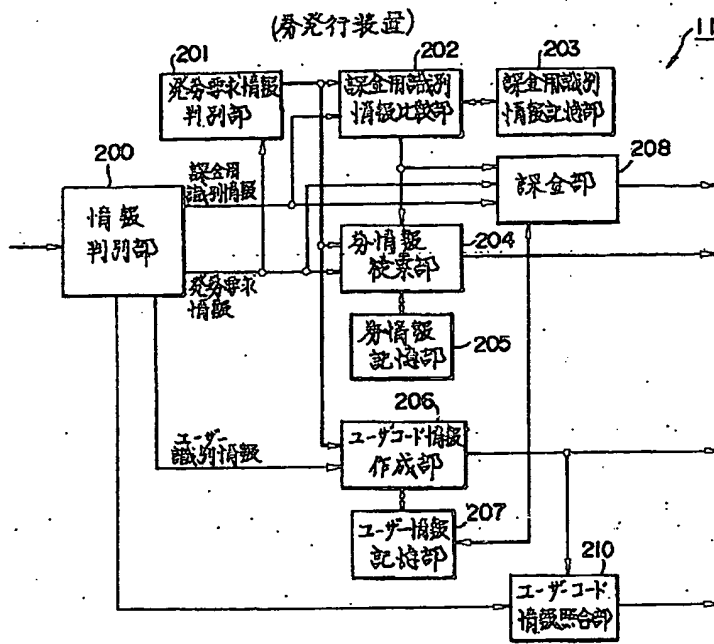
[Drawing 1]



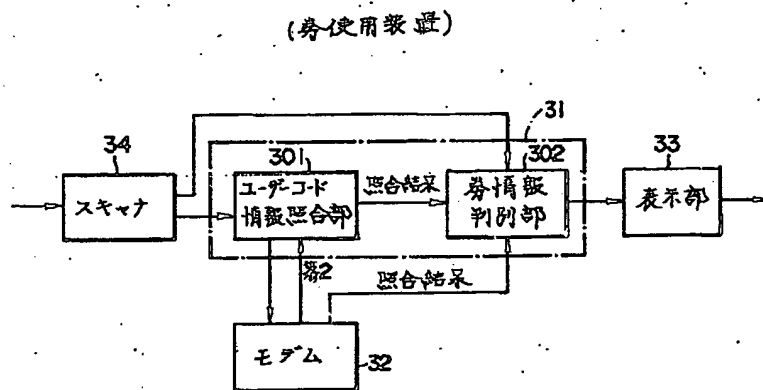
[Drawing 2]



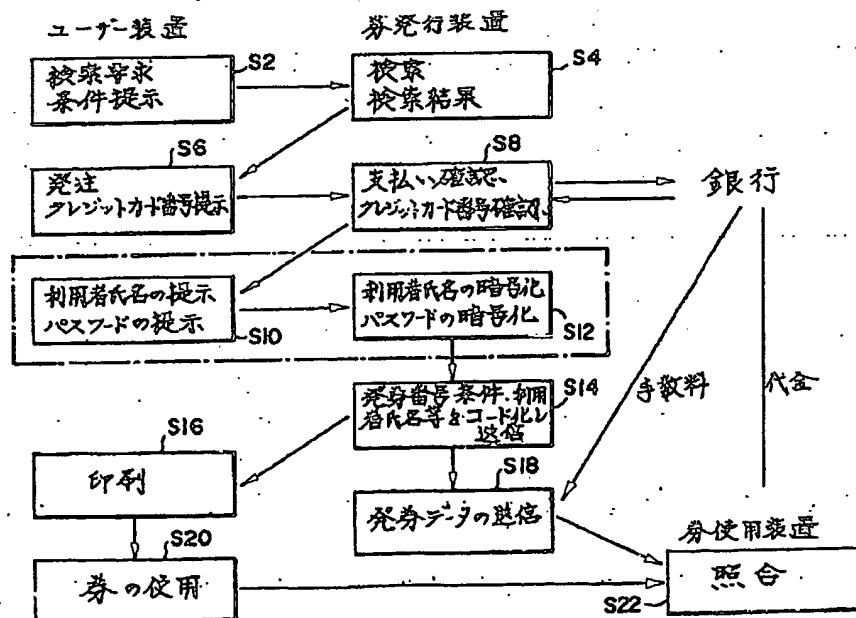
[Drawing 3]



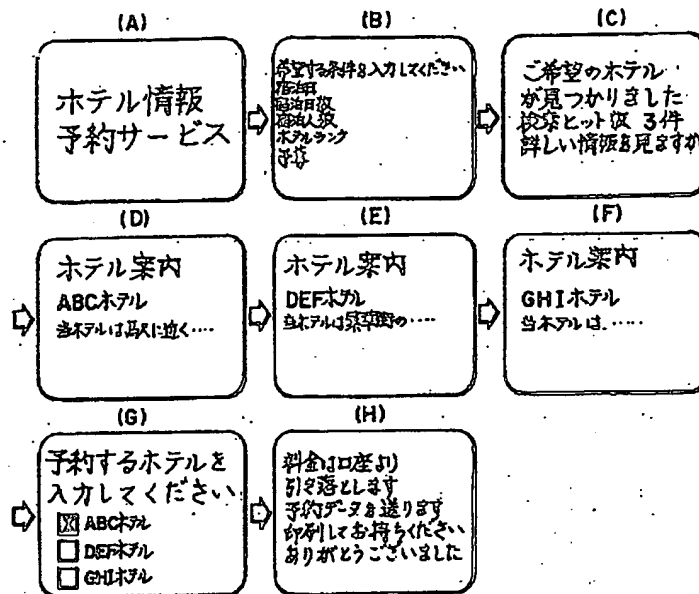
[Drawing 4]



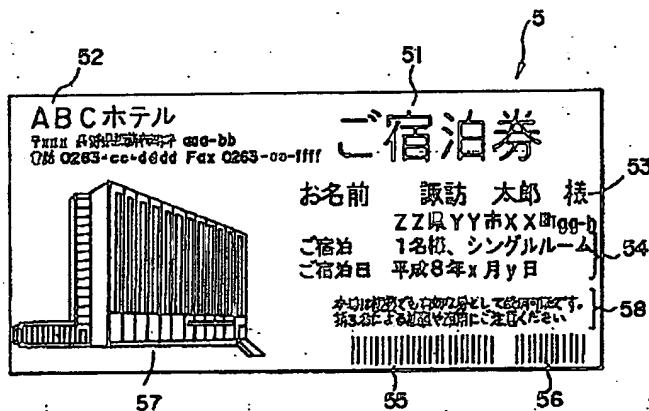
[Drawing 5]



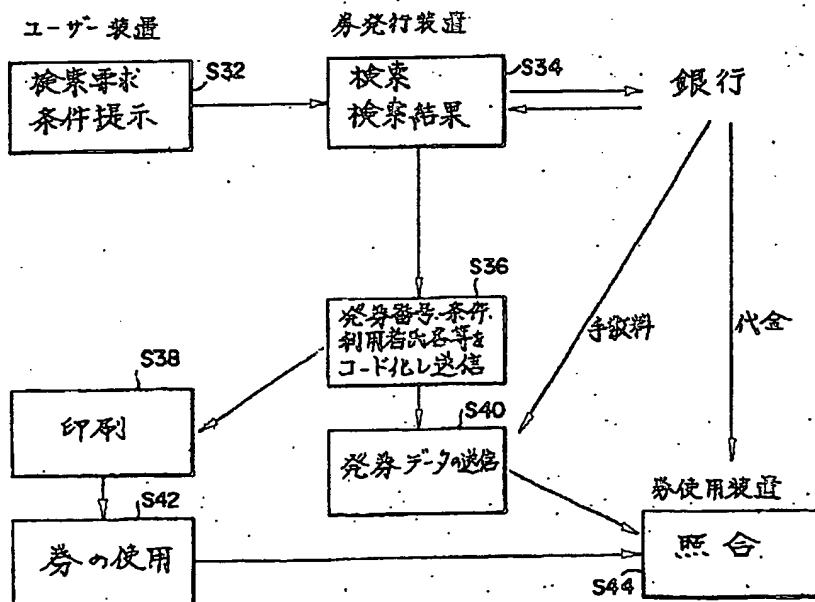
[Drawing 6]



[Drawing 7]



[Drawing 8]



[Drawing 9]

宿泊予約申込書	
申込年月日	<input type="text"/>
住所	<input type="text"/>
氏名	<input type="text"/>
会員番号	<input type="text"/>
電話番号	<input type="text"/>
ファックス番号	<input type="text"/>
下記条件でホテル予約をします。	
希望ホテル名または宿泊予定地	
到着予定日	<input type="text"/>
出発予定日	<input type="text"/>
シングル、ダブル、ツイン	
宿泊代予算	¥ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 円以内
その他希望事項等	
<input type="text"/>	
<input type="text"/>	
<input type="text"/>	
<input type="text"/>	

[Translation done.]